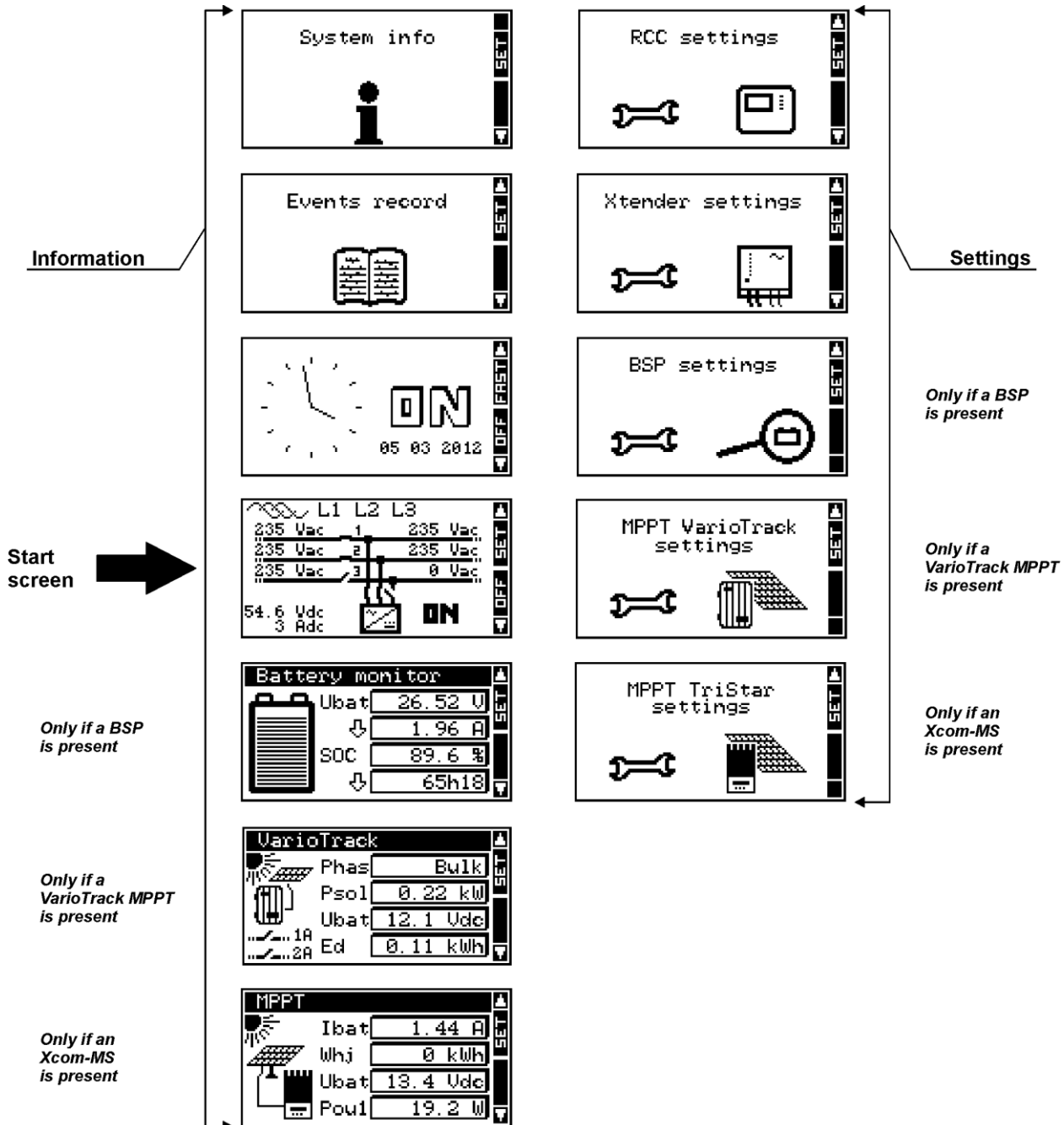
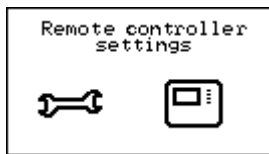


RCC-02/-03 Quick guide

Main displays



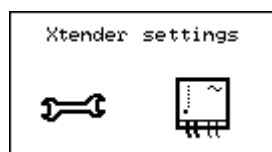
ADJUSTMENT OF THE REMOTE CONTROL



Level	User ref.	Parameter	Factory value
Basic	5000	Language	0 English
Expert	5036	OTHER LANGUAGES	
Basic	5038	Choice of the second language	French
Basic	5039	Choice of the third language	German
Basic	5040	Choice of the fourth language	Spanish
Basic	5001	Time	00:00
Basic	5002	Date	0
V.O.	5012	User level	16
Expert	5019	Force remote control to user BASIC level	-
Expert	5057	DATALOGGER	
Expert	5101	Datalogger enabled	Automatic
Expert	5059	Save today's datas	-
Inst.	5120	Erase the 30 oldest log files from the SD card	-
Basic	5013	SAVE AND RESTORE FILES	
Basic	5041	Save all files (system backup)	-
Basic	5068	Restore all files (system recovery)	-
Basic	5070	Apply configuration files (masterfile)	-
Expert	5032	Separator of the .csv files	Automatic
Expert	5069	Advanced backup functions	
Expert	5030	Save messages	-
Expert	5049	Save and restore RCC files	
Expert	5015	Save RCC parameters	-
Expert	5016	Load RCC parameters	-
Inst.	5097	Create RCC configuration file (masterfile)	-
Expert	5098	Load RCC configuration file (masterfile)	-
Expert	5050	Save and restore Xtender files	
Expert	5017	Save Xtender parameters	-
Expert	5018	Load Xtender parameters	-
Inst.	5033	Create Xtender configuration file (masterfile)	-
Expert	5034	Load Xtender configuration file (masterfile)	-
Expert	5045	Load Xtender parameters preset	1
Expert	5051	Save and restore BSP files	
Expert	5052	Save BSP parameters	-
Expert	5053	Load BSP parameters	-
Inst.	5054	Create BSP configuration file (masterfile)	-
Expert	5055	Load BSP configuration file (masterfile)	-
Expert	5084	Save and restore VarioTrack files	
Expert	5085	Save VarioTrack parameters	-
Expert	5086	Load VarioTrack parameters	-
Inst.	5087	Create VarioTrack configuration file (masterfile)	-
Expert	5088	Load VarioTrack configuration file (masterfile)	-

Level	User ref.	Parameter	Factory value
Expert	5063	Save and restore MPPT Tristar files	
Expert	5064	Save MPPT Tristar parameters	-
Expert	5065	Load MPPT Tristar parameters	-
Inst.	5066	Create MPPT Tristar configuration file (masterfile)	-
Expert	5067	Load MPPT Tristar configuration file (masterfile)	-
Inst.	5047	Format the SD card	-
Expert	5061	Start update	-
Inst.	5042	MODIFICATION OF ACCESS LEVELS OF MANY PARAMETERS	
Inst.	5043	Change all parameters access level to:	Choose
Inst.	5044	Restore default access level of all parameters	-
Basic	5007	BACKLIGHT	
Basic	5093	Backlight mode	Delayed
Basic	5009	Backlight switch off after	120 sec
Expert	5026	Red backlight flashing on Xtender off and faulty	Yes
Basic	5021	EXTENDED AND SPECIAL FUNCTIONS	
Basic	5006	Display contrast	55%
Expert	5073	Choice of standard display	Xtender
Expert	5010	Come back to standard display after	600 sec
Expert	5011	Visibility of the transitory messages	60 sec
Basic	5027	Acoustic alarm active	Yes
Expert	5031	Remote control acoustic alarm duration	120 sec
Expert	5056	Switching ON and OFF of system on level "VIEW ONLY"	Yes
Inst.	5071	Reset of all the remotes control	-
Expert	5094	SCOM	
Expert	5105	Test of the modem's GPRS signal level	-
Inst.	5119	Device identification (LEDs) with the SCOM address	0
Inst.	5095	SCOM watchdog enable	No
Inst.	5096	Delay before Xcom-232i reset	60 sec

ADJUSTMENT OF THE XTENDER



Level	User ref.	Parameter	Factory value
Basic	1100	BASIC SETTINGS	
Basic	1551	Basic parameters set by means of the potentiometer in the XTS	Yes
Basic	1107	Maximum current of AC source (Input limit)	32 Aac
Basic	1138	Battery charge current	60 Adc
Basic	1126	Smart-Boost allowed	Yes
Basic	1124	Inverter allowed	Yes
Basic	1552	Type of detection of the grid loss (AC-In)	Tolerant
Basic	1187	Standby level	10%
Basic	1395	Restore default settings	-

Level	User ref.	Parameter	Factory value
Inst.	1287	Restore factory settings	-
Expert	1137	BATTERY MANAGEMENT AND CYCLE	
Expert	1125	Charger allowed	Yes
Basic	1138	Battery charge current	60 Adc
Expert	1139	Temperature compensation	-3 mV/°C/cell
Expert	1568	Undervoltage	
Expert	1108	Battery undervoltage level without load	11.6/23.2/46.3 Vdc
Expert	1531	Battery undervoltage dynamic compensation	
Expert	1191	Battery undervoltage dynamic compensation	Yes
Expert	1532	Kind of dynamic compensation	Automatic
Expert	1109	Battery undervoltage level at full load	10.5/21/42 Vdc
Expert	1190	Battery undervoltage duration before turn off	3 min
Expert	1110	Restart voltage after batteries undervoltage	12/24/48 Vdc
Expert	1194	Battery adaptive low voltage (B.L.O)	No
Expert	1195	Max voltage for adaptive low voltage	12.5/25/49.9 Vdc
Expert	1307	Reset voltage for adaptive correction	13.2/26.4/52.8 Vdc
Expert	1298	Increment step of the adaptive low voltage	0.1/0.2/0.5 Vdc
Expert	1121	Battery overvoltage level	17/34.1/68.2 Vdc
Expert	1122	Restart voltage level after an battery overvoltage	16.2/32.4/64.8 Vdc
Expert	1140	Floating voltage	13.6/27.2/54.4 Vdc
Expert	1467	Force phase of floating	-
Expert	1141	New cycle menu	
Expert	1142	Force a new cycle	-
Inst.	1608	Use dynamic compensation of battery level (new cycle)	No
Expert	1143	Voltage level 1 to start a new cycle	12.5/25/49.9 Vdc
Expert	1144	Time period under voltage level 1 to start a new cycle	30 min
Expert	1145	Voltage level 2 to start a new cycle	12.3/24.6/49.2 Vdc
Expert	1146	Time period under voltage level 2 to start a new cycle	60 sec
Expert	1149	New cycle priority on absorption and equalization phases	No
Expert	1147	Cycling restricted	No
Expert	1148	Minimal delay between cycles	3 hours
Expert	1451	Absorption phase	
Expert	1155	Absorption phase allowed	Yes
Expert	1156	Absorption voltage	14.4/28.8/57.6 Vdc
Expert	1157	Absorption duration	2 hours
Expert	1158	End of absorption triggered with current	No
Expert	1159	Current limit to quit the absorption phase	4 Adc
Expert	1160	Maximal frequency of absorption control	No
Expert	1161	Minimal delay since last absorption	2 hours
Expert	1452	Equalization phase	
Expert	1163	Equalization allowed	No
Expert	1162	Force equalization	-
Expert	1291	Equalization before absorption phase	Yes
Expert	1290	Equalization current	60 Adc

Level	User ref.	Parameter	Factory value
Expert	1164	Equalization voltage	15.6/31.2/62.4 Vdc
Expert	1165	Equalization duration	0.5 hours
Expert	1166	Number of cycles before an equalization	25
Expert	1284	Equalization with fixed interval	No
Expert	1285	Weeks between equalizations	26 weeks
Expert	1168	End of equalization triggered with current	No
Expert	1169	Current threshold to end equalization phase	4 Adc
Expert	1453	Reduced floating phase	
Expert	1170	Reduced floating allowed	No
Expert	1171	Floating duration before reduced floating	1 days
Expert	1172	Reduced floating voltage	13.2/26.4/52.8 Vdc
Expert	1454	Periodic absorption phase	
Expert	1173	Periodic absorption allowed	No
Expert	1174	Periodic absorption voltage	14.4/28.8/57.6 Vdc
Expert	1175	Reduced floating duration before periodic absorption	7 days
Expert	1176	Periodic absorption duration	0.5 hours
Expert	1186	INVERTER	
Basic	1124	Inverter allowed	Yes
Expert	1286	AC Output voltage	230 Vac
Expert	1548	AC voltage increase according to battery voltage	No
Expert	1560	Max AC voltage increase with battery voltage	10 Vac
Expert	1112	Inverter frequency	50 Hz
Expert	1536	Inverter frequency increase when battery full	No
Expert	1549	Inverter frequency increase according to battery voltage	No
Expert	1546	Max frequency increase	4 Hz
Expert	1534	Speed of voltage or frequency change in function of battery	0
Expert	1420	Standby and turn on	
Basic	1187	Standby level	10%
Expert	1189	Time delay between standby pulses	0.8 sec
Expert	1188	Standby number of pulses	1
Expert	1599	Softstart duration	0 sec
Expert	1438	Solsafe presence Energy source at AC-Out side	No
Expert	1197	AC-IN AND TRANSFER	
Expert	1128	Transfer relay allowed	Yes
Expert	1580	Delay before closing transfer relay	0 min
Basic	1126	Smart-Boost allowed	Yes
Inst.	1607	Limitation of the power Boost	100%
Basic	1107	Maximum current of AC source (Input limit)	32 Aac
Expert	1471	Max input current modification	
Expert	1566	Using a secondary value for the maximum current of the AC source	No
Expert	1567	Second maximum current of the AC source (Input limit)	16 Aac
Expert	1527	Decrease max input limit current with AC-In voltage	No

Level	User ref.	Parameter	Factory value
Expert	1554	Decrease of the max. current of the source with input voltage activated by command entry	No
Expert	1309	AC input low limit voltage to allow charger function	180 Vac
Expert	1433	Adaptation range of the input current according to the input voltage	10 Vac
Expert	1553	Speed of input limit increase	50
Expert	1295	Charge current decrease coef. at voltage limit to turn back in inverter mode	100%
Expert	1436	Overrun AC source current limit without opening the transfer relay (Input limit)	Yes
Basic	1552	Type of detection of the grid loss (AC-In)	Tolerant
Expert	1510	Tolerance on detection of AC-input loss (tolerant UPS mode)	100
Expert	1199	Input voltage giving an opening of the transfer relay with delay	180 Vac
Expert	1198	Time delay before opening of transfer relay	8 sec
Expert	1200	Input voltage giving an immediate opening of the transfer relay (UPS)	90 Vac
Inst.	1432	Absolute max limit for input voltage	270 Vac
Expert	1505	Delta frequency allowed above the standard input frequency	35 Hz
Expert	1506	Delta frequency allowed under the standard input frequency	15 Hz
Expert	1507	Duration with frequency error before opening the transfer	5 sec
Expert	1575	AC-IN current active filtering	No
Inst.	1557	Use an energy quota on AC-input	No
Inst.	1559	AC-in energy quota	1 kWh
Inst.	1604	External transfert management	No
Expert	1201	AUXILIARY CONTACT 1	
Expert	1202	Operating mode (AUX 1)	Automatic
Expert	1497	Combination of the events for the auxiliary contact (AUX 1)	Any (Function OR)
Expert	1203	Temporal restrictions (AUX 1)	
Expert	1204	Program 1 (AUX 1)	
Expert	1205	Day of the week (AUX 1)	None days
Expert	1206	Start hour (AUX 1)	07:00 hh:mm
Expert	1207	End hour (AUX 1)	20:00 hh:mm
Expert	1208	Program 2 (AUX 1)	
Expert	1209	Day of the week (AUX 1)	None days
Expert	1210	Start hour (AUX 1)	07:00 hh:mm
Expert	1211	End hour (AUX 1)	20:00 hh:mm
Expert	1212	Program 3 (AUX 1)	
Expert	1213	Day of the week (AUX 1)	None days
Expert	1214	Start hour (AUX 1)	07:00 hh:mm
Expert	1215	End hour (AUX 1)	20:00 hh:mm
Inst.	1216	Program 4 (AUX 1)	

Level	User ref.	Parameter	Factory value
Inst.	1217	Day of the week (AUX 1)	None days
Inst.	1218	Start hour (AUX 1)	07:00 hh:mm
Inst.	1219	End hour (AUX 1)	20:00 hh:mm
Inst.	1220	Program 5 (AUX 1)	
Inst.	1221	Day of the week (AUX 1)	None days
Inst.	1222	Start hour (AUX 1)	07:00 hh:mm
Inst.	1223	End hour (AUX 1)	20:00 hh:mm
Expert	1269	Contact active with a fixed time schedule (AUX 1)	
Expert	1270	Program 1 (AUX 1)	
Expert	1271	Day of the week (AUX 1)	None days
Expert	1272	Start hour (AUX 1)	07:00 hh:mm
Expert	1273	End hour (AUX 1)	20:00 hh:mm
Expert	1274	Program 2 (AUX 1)	
Expert	1275	Day of the week (AUX 1)	None days
Expert	1276	Start hour (AUX 1)	07:00 hh:mm
Expert	1277	End hour (AUX 1)	20:00 hh:mm
Expert	1278	Program 3 (AUX 1)	
Expert	1279	Day of the week (AUX 1)	None days
Expert	1280	Start hour (AUX 1)	07:00 hh:mm
Expert	1281	End hour (AUX 1)	20:00 hh:mm
Expert	1455	Contact active on event (AUX 1)	
Expert	1225	Xtender is OFF (AUX 1)	No
Expert	1518	Xtender ON (AUX 1)	No
Expert	1543	Remote entry (AUX 1)	No
Expert	1226	Battery undervoltage alarm (AUX 1)	No
Expert	1227	Battery overvoltage (AUX 1)	No
Expert	1228	Inverter or Smart- Boost overload (AUX 1)	No
Expert	1229	Overtemperature (AUX 1)	No
Expert	1520	No overtemperature (AUX 1)	No
Expert	1231	Active charger (AUX 1)	No
Expert	1232	Active inverter (AUX 1)	No
Expert	1233	Active Smart-Boost (AUX 1)	No
Expert	1234	AC input presence but with fault (AUX 1)	No
Expert	1235	AC input presence (AUX 1)	No
Expert	1236	Transfer relay ON (AUX 1)	No
Expert	1237	AC out presence (AUX 1)	No
Expert	1238	Bulk charge phase (AUX 1)	No
Expert	1239	Absorption phase (AUX 1)	No
Expert	1240	Equalization phase (AUX 1)	No
Expert	1242	Floating (AUX 1)	No
Expert	1243	Reduced floating (AUX 1)	No
Expert	1244	Periodic absorption (AUX 1)	No
Inst.	1601	AC-in energy quota (AUX1)	No
Expert	1245	Contact active according to battery voltage (AUX 1)	
Expert	1288	Use dynamic compensation of battery level (AUX 1)	Yes
Expert	1246	Battery voltage 1 activate (AUX 1)	Yes
Expert	1247	Battery voltage 1 (AUX 1)	11.7/23.4/46.8 Vdc
Expert	1248	Delay 1 (AUX 1)	1 min

Level	User ref.	Parameter	Factory value
Expert	1249	Battery voltage 2 activate (AUX 1)	Yes
Expert	1250	Battery voltage 2 (AUX 1)	11.9/23.9/47.8 Vdc
Expert	1251	Delay 2 (AUX 1)	10 min
Expert	1252	Battery voltage 3 activate (AUX 1)	Yes
Expert	1253	Battery voltage 3 (AUX 1)	12.1/24.2/48.5 Vdc
Expert	1254	Delay 3 (AUX 1)	60 min
Expert	1255	Battery voltage to deactivate (AUX 1)	13.5/27/54 Vdc
Expert	1256	Delay to deactivate (AUX 1)	60 min
Expert	1516	Deactivate if battery in floating phase (AUX 1)	Yes
Expert	1257	Contact active with inverter power or Smart-Boost (AUX 1)	
Expert	1258	Inverter power level 1 activate (AUX 1)	No
Expert	1259	Power level 1 (AUX 1)	120 % Pnom
Expert	1260	Time delay 1 (AUX 1)	1 min
Expert	1261	Inverter power level 2 activate (AUX 1)	No
Expert	1262	Power level 2 (AUX 1)	80 % Pnom
Expert	1263	Time delay 2 (AUX 1)	5 min
Expert	1264	Inverter power level 3 activate (AUX 1)	No
Expert	1265	Power level 3 (AUX 1)	50 % Pnom
Expert	1266	Time delay 3 (AUX 1)	30 min
Expert	1267	Inverter power level to deactivate (AUX 1)	40 % Pnom
Expert	1268	Time delay to deactivate (AUX 1)	5 min
Inst.	1503	Contact active according to battery temperature (AUX 1) With BSP or BTS	
Inst.	1446	Contact activated with the temperature of battery (AUX 1)	No
Inst.	1447	Contact activated over (AUX 1)	3 °C
Inst.	1448	Contact deactivated below (AUX 1)	5 °C
Expert	1501	Contact active according to SOC (AUX 1) Only with BSP	
Expert	1439	Contact activated with the SOC 1 of battery (AUX 1)	No
Expert	1440	Contact activated below SOC 1 (AUX 1)	50 % SOC
Expert	1581	Delay 1 (AUX 1)	12 h
Expert	1582	Contact activated with the SOC 2 of battery (AUX 1)	No
Expert	1583	Contact activated below SOC 2 (AUX 1)	30%
Expert	1584	Delay 2 (AUX 1)	0.2 h
Expert	1585	Contact activated with the SOC 3 of battery (AUX 1)	No
Expert	1586	Contact activated below SOC 3 (AUX 1)	20%
Expert	1587	Delay 3 (AUX 1)	0 h
Expert	1441	Contact deactivated over SOC (AUX 1)	90 % SOC
Expert	1588	Delay to deactivate (AUX 1)	0.2 h
Expert	1589	Deactivate if battery in floating phase (AUX 1)	Yes
Expert	1512	Security, maximum time of contact (AUX 1)	No
Expert	1514	Maximum time of operation of contact (AUX 1)	600 min
Expert	1569	Reset all settings (AUX 1)	-
Expert	1310	AUXILIARY CONTACT 2	
Expert	1311	Operating mode (AUX 2)	Reversed automatic

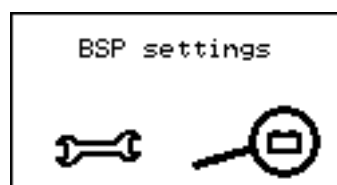
Level	User ref.	Parameter	Factory value
Expert	1498	Combination of the events for the auxiliary contact (AUX 2)	Any (Function OR)
Expert	1312	Temporal restrictions (AUX 2)	
Expert	1313	Program 1 (AUX 2)	
Expert	1314	Day of the week (AUX 2)	None days
Expert	1315	Start hour (AUX 2)	07:00 hh:mm
Expert	1316	End hour (AUX 2)	20:00 hh:mm
Expert	1317	Program 2 (AUX 2)	
Expert	1318	Day of the week (AUX 2)	None days
Expert	1319	Start hour (AUX 2)	07:00 hh:mm
Expert	1320	End hour (AUX 2)	20:00 hh:mm
Expert	1321	Program 3 (AUX 2)	
Expert	1322	Day of the week (AUX 2)	None days
Expert	1323	Start hour (AUX 2)	07:00 hh:mm
Expert	1324	End hour (AUX 2)	20:00 hh:mm
Inst.	1325	Program 4 (AUX 2)	
Inst.	1326	Day of the week (AUX 2)	None days
Inst.	1327	Start hour (AUX 2)	07:00 hh:mm
Inst.	1328	End hour (AUX 2)	20:00 hh:mm
Inst.	1329	Program 5 (AUX 2)	
Inst.	1330	Day of the week (AUX 2)	None days
Inst.	1331	Start hour (AUX 2)	07:00 hh:mm
Inst.	1332	End hour (AUX 2)	20:00 hh:mm
Expert	1378	Contact active with a fixed time schedule (AUX 2)	
Expert	1379	Program 1 (AUX 2)	
Expert	1380	Day of the week (AUX 2)	None days
Expert	1381	Start hour (AUX 2)	07:00 hh:mm
Expert	1382	End hour (AUX 2)	20:00 hh:mm
Expert	1383	Program 2 (AUX 2)	
Expert	1384	Day of the week (AUX 2)	None days
Expert	1385	Start hour (AUX 2)	07:00 hh:mm
Expert	1386	End hour (AUX 2)	20:00 hh:mm
Expert	1387	Program 3 (AUX 2)	
Expert	1388	Day of the week (AUX 2)	None days
Expert	1389	Start hour (AUX 2)	07:00 hh:mm
Expert	1390	End hour (AUX 2)	20:00 hh:mm
Expert	1456	Contact active on event (AUX 2)	
Expert	1333	Xtender is OFF (AUX 2)	Yes
Expert	1519	Xtender ON (AUX 2)	No
Expert	1544	Remote entry (AUX 2)	No
Expert	1334	Battery undervoltage alarm (AUX 2)	Yes
Expert	1335	Battery overvoltage (AUX 2)	Yes
Expert	1336	Inverter or Smart-Boost overload (AUX 2)	Yes
Expert	1337	Overtemperature (AUX 2)	Yes
Expert	1521	No overtemperature (AUX 2)	No
Expert	1339	Active charger (AUX 2)	No
Expert	1340	Active inverter (AUX 2)	No
Expert	1341	Active Smart-Boost (AUX 2)	No

Level	User ref.	Parameter	Factory value
Expert	1342	AC input presence but with fault (AUX 2)	No
Expert	1343	AC input presence (AUX 2)	No
Expert	1344	Transfer contact ON (AUX 2)	No
Expert	1345	AC out presence (AUX 2)	No
Expert	1346	Bulk charge phase (AUX 2)	No
Expert	1347	Absorption phase (AUX 2)	No
Expert	1348	Equalization phase (AUX 2)	No
Expert	1350	Floating (AUX 2)	No
Expert	1351	Reduced floating (AUX 2)	No
Expert	1352	Periodic absorption (AUX 2)	No
Inst.	1602	AC-in energy quota (AUX2)	No
Expert	1353	Contact active according to battery voltage (AUX 2)	
Expert	1354	Use dynamic compensation of battery level (AUX 2)	No
Expert	1355	Battery voltage 1 activate (AUX 2)	No
Expert	1356	Battery voltage 1 (AUX 2)	12/24/48 Vdc
Expert	1357	Delay 1 (AUX 2)	5 min
Expert	1358	Battery voltage 2 activate (AUX 2)	No
Expert	1359	Battery voltage 2 (AUX 2)	11.5/23/46.1 Vdc
Expert	1360	Delay 2 (AUX 2)	5 min
Expert	1361	Battery voltage 3 activate (AUX 2)	No
Expert	1362	Battery voltage 3 (AUX 2)	11/22.1/44.2 Vdc
Expert	1363	Delay 3 (AUX 2)	5 min
Expert	1364	Battery voltage to deactivate (AUX 2)	12.6/25.2/50.4 Vdc
Expert	1365	Delay to deactivate (AUX 2)	5 min
Expert	1517	Deactivate if battery in floating phase (AUX 2)	No
Expert	1366	Contact active with inverter power or Smart-Boost (AUX 2)	
Expert	1367	Inverter power level 1 activate (AUX 2)	No
Expert	1368	Power level 1 (AUX 2)	120 % Pnom
Expert	1369	Time delay 1 (AUX 2)	0 min
Expert	1370	Inverter power level 2 activate (AUX 2)	No
Expert	1371	Power level 2 (AUX 2)	80 % Pnom
Expert	1372	Time delay 2 (AUX 2)	5 min
Expert	1373	Inverter power level 3 activate (AUX 2)	No
Expert	1374	Power level 3 (AUX 2)	50 % Pnom
Expert	1375	Time delay 3 (AUX 2)	30 min
Expert	1376	Inverter power level to deactivate (AUX 2)	40 % Pnom
Expert	1377	Time delay to deactivate (AUX 2)	5 min
Inst.	1504	Contact active according to battery temperature (AUX 2) With BSP or BTS	
Inst.	1457	Contact activated with the temperature of battery (AUX 2)	No
Inst.	1458	Contact activated over (AUX 2)	3 °C
Inst.	1459	Contact deactivated below (AUX 2)	5 °C
Expert	1502	Contact active according to SOC (AUX 2) Only with BSP	
Expert	1442	Contact activated with the SOC 1 of battery (AUX 2)	No
Expert	1443	Contact activated below SOC 1 (AUX 2)	50 % SOC

Level	User ref.	Parameter	Factory value
Expert	1590	Delay 1 (AUX 2)	12 h
Expert	1591	Contact activated with the SOC 2 of battery (AUX 2)	No
Expert	1592	Contact activated below SOC 2 (AUX 2)	30%
Expert	1593	Delay 2 (AUX 2)	0.2 h
Expert	1594	Contact activated with the SOC 3 of battery (AUX 2)	No
Expert	1595	Contact activated below SOC 3 (AUX 2)	20%
Expert	1596	Delay 3 (AUX 2)	0 h
Expert	1444	Contact deactivated over SOC (AUX 2)	90 % SOC
Expert	1597	Delay to deactivate (AUX 2)	0.2 h
Expert	1598	Deactivate if battery in floating phase (AUX 2)	Yes
Expert	1513	Security, maximum time of contact (AUX 2)	No
Expert	1515	Maximum time of operation of contact (AUX 2)	600 min
Expert	1570	Reset all settings (AUX 2)	-
Expert	1489	AUXILIARY CONTACTS 1 AND 2 EXTENDED FUNCTIONS	
Expert	1491	Generator control active	No
Expert	1493	Number of starting attempts	5
Expert	1492	Starter pulse duration (with AUX2)	3 sec
Expert	1494	Time before a starter pulse	3 sec
Expert	1574	Main contact hold/interrupt time	0 sec
Expert	1101	SYSTEM	
Expert	1537	Remote entry (Remote ON/OFF)	
Expert	1545	Remote entry active	Open
Expert	1538	Prohibits transfert relay	No
Expert	1539	Prohibits inverter	No
Expert	1540	Prohibits charger	No
Expert	1541	Prohibits Smart-Boost	No
Expert	1542	Prohibits grid feeding	No
Expert	1566	Using a secondary value for the maximum current of the AC source	No
Expert	1567	Second maximum current of the AC source (Input limit)	16 Aac
Expert	1554	Decrease of the max. current of the source with input voltage activated by command entry	No
Expert	1576	ON/OFF command	No
Expert	1578	Activated by AUX1 state	No
Expert	1579	Prohibits battery priority	No
Inst.	1600	Disable minigrid mode	No
Inst.	1603	Activate REG I, current control	No
Expert	1296	Batteries priority as energy source	No
Expert	1297	Battery priority voltage	12.9/25.8/51.6 Vdc
Expert	1565	Buzzer alarm duration	0 min
Expert	1129	Auto restarts	
Expert	1130	After battery undervoltage	Yes
Expert	1304	Number of batteries undervoltage allowed before definitive stop	3
Expert	1404	Time period for batteries undervoltages counting	0 sec
Expert	1305	Number of batteries critical undervoltage allowed before definitive stop	10

Level	User ref.	Parameter	Factory value
Expert	1405	Time period for critical batteries undervoltages counting	10 sec
Expert	1131	After battery overvoltage	Yes
Expert	1132	After inverter or Smart-Boost overload	Yes
Expert	1533	Delay to restart after an overload	5 sec
Expert	1134	After overtemperature	Yes
Expert	1111	Autostart to the battery connection	No
Expert	1484	System earthing (Earth - Neutral)	
Expert	1485	Prohibited ground relay	Yes
Expert	1486	Continuous neutral	No
Inst.	1550	Parameters saved in flash memory	Yes
Inst.	1415	Global ON of the system	-
Inst.	1399	Global OFF of the system	-
Expert	1468	Reset of all the inverters	-
Expert	1282	MULTI XTENDER SYSTEM	
Expert	1283	Integral mode	No
Expert	1461	Multi inverters allowed	Yes
Expert	1462	Multi inverters independents. Need reset {1468}	No
Expert	1555	Battery cycle synchronized by the master	Yes
Expert	1547	Allow slaves standby in multi-Xtender system	Yes
Expert	1571	Splitphase: L2 with 180 degrees phaseshift	No
Inst.	1437	Minigrid compatible	No
Inst.	1577	Minigrid with shared battery energy	Yes
Inst.	1556	is central inverter in distributed minigrid	No
Expert	1522	GRID-FEEDING	
Expert	1127	Grid feeding allowed	No
Expert	1523	Max grid feeding current	10 Aac
Expert	1524	Battery voltage target for forced grid feeding	12/24/48 Vdc
Expert	1525	Forced grid feeding start time	20:00 hh:mm
Expert	1526	Forced grid feeding stop time	20:00 hh:mm
Inst.	1610	Use of the defined phase shift curve for injection	No
Inst.	1622	Cos phi at P = 0%	1
Inst.	1623	Cos phi at the power defined by param {1613}	1
Inst.	1613	Power of the second cos phi point in % of Pnom	60%
Inst.	1624	Cos phi at P = 100%	1

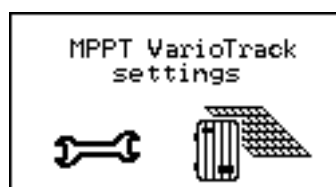
ADJUSTMENT OF THE BSP



Level	User ref.	Parameter	Factory value
Basic	6000	BASIC SETTINGS	
Basic	6001	Nominal capacity	110 Ah
Basic	6002	Nominal discharge duration (C-rating)	20 h

Level	User ref.	Parameter	Factory value
Basic	6017	Nominal shunt current	500 A
Basic	6018	Nominal shunt voltage	50 mV
Expert	6003	Reset of battery history	-
Basic	6004	Restore default settings	-
Inst.	6005	Restore factory settings	-
Expert	6016	ADVANCED SETTINGS	
Expert	6031	Reset of user counters	-
Expert	6019	Self-discharge rate	3 %/month
Expert	6020	Nominal temperature	20 °C
Expert	6021	Temperature coefficient	0.5 %cap/°C
Expert	6022	Charge efficiency factor	80%
Expert	6023	Peukert's exponent	1.2
Expert	6042	Activate the end of charge synchronization	No
Expert	6024	End of charge voltage level	13.2/26.4/52.8 V
Expert	6025	End of charge current level	2 %cap
Expert	6026	Minimum duration before end of charge	240 s

ADJUSTMENT OF THE VARIOTRACK MPPT



Level	User ref.	Parameter	Factory value
Basic	10000	BASIC SETTINGS	
Expert	10054	Block manual programming (dip-switch)	No
Basic	10001	Voltage of the system	Automatic
Basic	10037	Synchronisation battery cycle with Xtender	Yes
Basic	10005	Floating voltage	13.6/27.2/54.4 Vdc
Basic	10009	Absorption voltage	14.4/28.8/57.6 Vdc
Basic	10017	Equalization allowed	No
Basic	10021	Equalization voltage	15.6/31.2/62.4 Vdc
Basic	10056	Restore default settings	-
Inst.	10057	Restore factory settings	-
Expert	10003	BATTERY MANAGEMENT AND CYCLE	
Basic	10037	Synchronisation battery cycle with Xtender	Yes
Expert	10002	Battery charge current	80 Adc
Expert	10036	Temperature compensation	-3 mV/°C/cell
Expert	10004	Floating phase	
Basic	10005	Floating voltage	13.6/27.2/54.4 Vdc
Expert	10006	Force phase of floating	-
Expert	10007	Absorption phase	
Expert	10008	Absorption phase allowed	Yes
Basic	10009	Absorption voltage	14.4/28.8/57.6 Vdc
Expert	10010	Force absorption phase	-
Expert	10011	Absorption duration	120 min

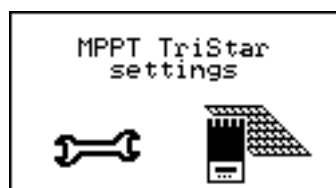
Level	User ref.	Parameter	Factory value
Expert	10012	End of absorption triggered by the current	No
Expert	10013	Current threshold to end absorption phase	10 Adc
Expert	10016	Equalization phase	
Basic	10017	Equalization allowed	No
Expert	10018	Force equalization	-
Basic	10021	Equalization voltage	15.6/31.2/62.4 Vdc
Expert	10020	Equalization current	80 Adc
Expert	10022	Equalization duration	30 min
Expert	10052	Equalization with fixed interval	Yes
Expert	10025	Days between equalizations	26 days
Expert	10026	End of equalization triggered by the current	No
Expert	10027	Current threshold to end equalization phase	10 Adc
Expert	10019	Equalization before absorption phase	Yes
Expert	10028	New cycle	
Expert	10029	Force a new cycle	-
Expert	10030	Voltage level 1 to start a new cycle	12.2/24.4/48.8 Vdc
Expert	10031	Time period under voltage level 1 to start a new cycle	30 min
Expert	10032	Voltage level 2 to start a new cycle	11.8/23.6/47.2 Vdc
Expert	10033	Time period under voltage level 2 to start a new cycle	2 sec
Expert	10034	Cycling restricted	Yes
Expert	10035	Minimal delay between cycles	1 hours
Expert	10038	SYSTEM	
Expert	10054	Block manual programming (dip-switch)	No
Expert	10060	Check Earthing	No control
Inst.	10087	Disabling of the display button	No
Inst.	10043	Reset solar production counters	-
Inst.	10044	Reset daily min-max	-
Basic	10056	Restore default settings	-
Inst.	10057	Restore factory settings	-
Inst.	10058	Parameters saved in flash memory	Yes
Expert	10039	ON of the VarioTrack	-
Expert	10040	OFF of the VarioTrack	-
Expert	10051	Reset of all VarioTrack	-
Expert	10088	AUXILIARY CONTACT 1	
Expert	10089	Operating mode (AUX 1)	Automatic
Expert	10090	Combination of the events for the auxiliary contact (AUX 1)	Any (Function OR)
Expert	10092	Contact activated in night mode (AUX 1)	
Expert	10093	Activated in night mode (AUX 1)	No
Expert	10094	Delay of activation after entering night mode (AUX 1)	1 min
Expert	10095	Activation time for the auxiliary relay in night mode (AUX 1)	1 min
Expert	10096	Contact active on event (AUX 1)	
Expert	10091	VarioTrack is OFF (AUX 1)	No
Expert	10097	Battery undervoltage (AUX 1)	No

Level	User ref.	Parameter	Factory value
Expert	10098	Battery overvoltage (AUX 1)	No
Expert	10099	Earth fault (AUX 1)	No
Expert	10100	PV error (48h without charge) (AUX 1)	No
Expert	10102	Overtemperature (AUX 1)	No
Expert	10104	Bulk charge phase (AUX 1)	No
Expert	10105	Absorption phase (AUX 1)	No
Expert	10106	Equalization phase (AUX 1)	No
Expert	10107	Floating (AUX 1)	No
Expert	10108	Reduced floating (AUX 1)	No
Expert	10109	Periodic absorption (AUX 1)	No
Expert	10110	Contact active according to battery voltage (AUX 1)	
Expert	10111	Battery voltage 1 activate (AUX 1)	No
Expert	10112	Battery voltage 1 (AUX 1)	11.7/23.4/46.8 Vdc
Expert	10113	Delay 1 (AUX 1)	1 min
Expert	10114	Battery voltage 2 activate (AUX 1)	No
Expert	10115	Battery voltage 2 (AUX 1)	11.9/23.9/47.8 Vdc
Expert	10116	Delay 2 (AUX 1)	10 min
Expert	10117	Battery voltage 3 activate (AUX 1)	No
Expert	10118	Battery voltage 3 (AUX 1)	12.1/24.2/48.5 Vdc
Expert	10119	Delay 3 (AUX 1)	60 min
Expert	10120	Battery voltage to deactivate (AUX 1)	13.5/27/54 Vdc
Expert	10121	Delay to deactivate (AUX 1)	60 min
Expert	10122	Deactivate if battery in floating phase (AUX 1)	No
Expert	10123	Contact active according to battery temperature (AUX 1) With BSP or BTS	
Expert	10124	Contact activated with the temperature of battery (AUX 1)	No
Expert	10125	Activation temperature of the contact (AUX 1)	3 °C
Expert	10126	Deactivation temperature of the contact (AUX 1)	5 °C
Expert	10127	Only activated if the battery is not in bulk phase (AUX 1)	No
Expert	10128	Contact active according to SOC (AUX 1) Only with BSP	
Expert	10129	Contact activated with the SOC 1 of battery (AUX 1)	No
Expert	10130	Contact activated below SOC 1 (AUX 1)	50 % SOC
Expert	10131	Delay 1 (AUX 1)	12 h
Expert	10132	Contact activated with the SOC 2 of battery (AUX 1)	No
Expert	10133	Contact activated below SOC 2 (AUX 1)	30%
Expert	10134	Delay 2 (AUX 1)	0.2 h
Expert	10135	Contact activated with the SOC 3 of battery (AUX 1)	No
Expert	10136	Contact activated below SOC 3 (AUX 1)	20%
Expert	10137	Delay 3 (AUX 1)	0 h
Expert	10138	Contact deactivated over SOC (AUX 1)	90 % SOC
Expert	10139	Delay to deactivate (AUX 1)	0.2 h
Expert	10140	Deactivate if battery in floating phase (AUX 1)	No

Level	User ref.	Parameter	Factory value
Expert	10141	Reset all settings (AUX 1)	-
Expert	10142	AUXILIARY CONTACT 2	
Expert	10143	Operating mode (AUX 2)	Automatic
Expert	10144	Combination of the events for the auxiliary contact (AUX 2)	Any (Function OR)
Expert	10146	Contact activated in night mode (AUX 2)	
Expert	10147	Activated in night mode (AUX 2)	No
Expert	10148	Delay of activation after entering night mode (AUX 2)	1 min
Expert	10149	Activation time for the auxiliary relay in night mode (AUX 2)	1 min
Expert	10150	Contact active on event (AUX 2)	
Expert	10145	VarioTrack is OFF (AUX 2)	No
Expert	10151	Battery undervoltage (AUX 2)	No
Expert	10152	Battery overvoltage (AUX 2)	No
Expert	10153	Earth fault (AUX 2)	No
Expert	10154	PV error (48h without charge) (AUX 2)	No
Expert	10156	Overtemperature (AUX 2)	No
Expert	10158	Bulk charge phase (AUX 2)	No
Expert	10159	Absorption phase (AUX 2)	No
Expert	10160	Equalization phase (AUX 2)	No
Expert	10161	Floating (AUX 2)	No
Expert	10162	Reduced floating (AUX 2)	No
Expert	10163	Periodic absorption (AUX 2)	No
Expert	10164	Contact active according to battery voltage (AUX 2)	
Expert	10165	Battery voltage 1 activate (AUX 2)	No
Expert	10166	Battery voltage 1 (AUX 2)	11.7/23.4/46.8 Vdc
Expert	10167	Delay 1 (AUX 2)	1 min
Expert	10168	Battery voltage 2 activate (AUX 2)	No
Expert	10169	Battery voltage 2 (AUX 2)	11.9/23.9/47.8 Vdc
Expert	10170	Delay 2 (AUX 2)	10 min
Expert	10171	Battery voltage 3 activate (AUX 2)	No
Expert	10172	Battery voltage 3 (AUX 2)	12.1/24.2/48.5 Vdc
Expert	10173	Delay 3 (AUX 2)	60 min
Expert	10174	Battery voltage to deactivate (AUX 2)	13.5/27/54 Vdc
Expert	10175	Delay to deactivate (AUX 2)	60 min
Expert	10176	Deactivate if battery in floating phase (AUX 2)	No
Expert	10177	Contact active according to battery temperature (AUX 2) With BSP or BTS	
Expert	10178	Contact activated with the temperature of battery (AUX 2)	No
Expert	10179	Contact activated over (AUX 2)	3 °C
Expert	10180	Contact deactivated below (AUX 2)	5 °C
Expert	10181	Only activated if the battery is not in bulk phase (AUX 2)	No
Expert	10182	Contact active according to SOC (AUX 2) Only with BSP	

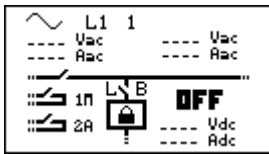
Level	User ref.	Parameter	Factory value
Expert	10183	Contact activated with the SOC 1 of battery (AUX 2)	No
Expert	10184	Contact activated below SOC 1 (AUX 2)	50 % SOC
Expert	10185	Delay 1 (AUX 2)	12 h
Expert	10186	Contact activated with the SOC 2 of battery (AUX 2)	No
Expert	10187	Contact activated below SOC 2 (AUX 2)	30%
Expert	10188	Delay 2 (AUX 2)	0.2 h
Expert	10189	Contact activated with the SOC 3 of battery (AUX 2)	No
Expert	10190	Contact activated below SOC 3 (AUX 2)	20%
Expert	10191	Delay 3 (AUX 2)	0 h
Expert	10192	Contact deactivated over SOC (AUX 2)	90 % SOC
Expert	10193	Delay to deactivate (AUX 2)	0.2 h
Expert	10194	Deactivate if battery in floating phase (AUX 2)	No
Expert	10195	Reset all settings (AUX 2)	-

ADJUSTMENT OF XCOM-MS



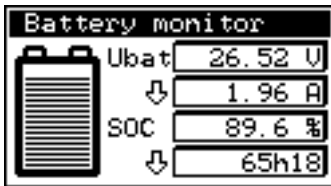
Level	User ref.	Parameter	Factory value
Basic	8000	BASIC SETTINGS	
Expert	8014	Address of the MPPT selected for the display	1
Basic	8001	Charge cycles synchronization activated	No
Expert	8002	Change the RS-485 identifier	0
Basic	8015	Restore default settings	-
Inst.	8016	Restore factory settings	-
Basic	8003	BATTERY MANAGEMENT WITHOUT SYNCHRONIZATION	
Basic	8004	Battery floating level	13.6/27.2/54.5 Vdc
Basic	8005	Maximum delay in floating	2 hours
Basic	8006	Battery voltage level to start a new cycle	12.5/25/49.9 Vdc
Basic	8009	Battery absorption voltage	14.4/28.8/57.6 Vdc
Basic	8010	Absorption time	2 hours
Basic	8011	Battery temperature compensation	-5 mV/°C/cell
Basic	8017	Equalization allowed	No
Basic	8018	Equalization voltage	15.1/30.2/60.5 Vdc
Basic	8019	Equalization time	1 hours
Basic	8020	Equalization interval	28 days
Basic	8021	Equalization timeout	3 hours

USER INFORMATION XTENDER



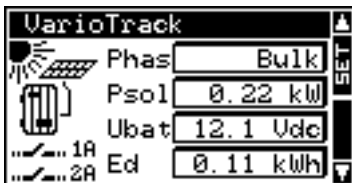
Info. no.	Name	Unit	Description
			Battery
3000	Ubat	Vdc	Battery voltage
3005	Ibat (m)	Adc	Battery charge current
3004	Ibat	Ausr	Wanted battery charge current
3006	Ubat ond	Vrip	Battery voltage ripple
3010	Phase	Text	Battery cycle phase (----, Bulk, Absorpt., Equalise, Floating, R.float., Per.abs., Mixing, Forming)
3003	Comp P	Cdyn	Dynamic compensation of battery voltage
3028	Mode	Text	Operating state (----, Inverter, Charger, Boost, Injection)
3001	Tbat	°C	Battery temperature
3002	Comp°C	Ctmp	Temperature compensation of battery voltage
3076	E out YD	kWh	Discharge of battery of the previous day
3078	E out Day	kWh	Discharge of battery of the current day
			Input AC
3011	U in	Vac	Input voltage
3012	I in	Aac	Input current
3138	P in	kVA	Input power
3137	P in a	kW	Input active power
3084	F in	Hz	Input frequency
3080	Eac in YD	kWh	Energy from of the previous day
3081	Eac in Day	kWh	Energy from of the current day
			Output AC
3021	U out	Vac	Output voltage
3022	I out	Aac	Output current
3139	P out	kVA	Output power
3136	Pout a	kW	Output active power
3085	F out	Hz	Output frequency
3082	Eac out YD	kWh	Consumers energy of the previous day
3083	Eac out Dy	kWh	Consumers energy of the current day
			General
3020	Transfert	Text	State of transfer relay (Opened, Closed)
3030	Rel out	Text	State of output relay (Opened, Closed)
3031	Aux I	Text	State of auxiliary relay I (Opened, Closed)
3032	Aux 2	Text	State of auxiliary relay II (Opened, Closed)
3054	Aux I	Text	Relay aux I mode (----, A, I, M, M, G)
3055	Aux II	Text	Relay aux II mode (----, A, I, M, M, G)
3056	Lockings		Lockings flag
3019	Boost	Text	Boost active (Off, On)
3018	P sharing	Text	Input limite reached (Off, On)

USER INFORMATION (BSP)



Info. no.	Name	Unit	Description
7000	Ubat	Vdc	Battery voltage
7001	Ibat	Adc	Battery current
7002	SOC	%	State of Charge
7003	Pbat	W	Power
7004	Trem		Remaining autonomy
7006	Crel	%	Relative capacity
7007	0d<	Ah	Ah charged today
7008	0d>	Ah	Ah discharged today
7009	-1d<	Ah	Ah charged yesterday
7010	-1d>	Ah	Ah discharged yesterday
7011	tot<	kAh	Total kAh charged
7012	tot>	kAh	Total kAh discharged
7013	Ttot	days	Total time
7017	cus>	Ah	Custom charge Ah counter
7018	cus<	Ah	Custom discharge Ah counter
7019	Tcus	h	Custom counter duration
7029	Tbat	°C	Battery temperature

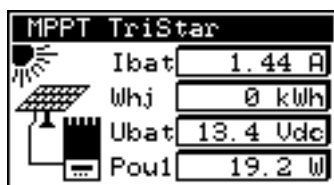
USER INFORMATION (VARIOTRACK)



Info. no.	Name	Unit	Description
11000	Ubat	Vdc	Battery voltage
11001	Ibat	Adc	Battery current
11002	Upv	Vdc	Voltage of the PV generator
11004	Psol	kW	Power of the PV generator
11005	Tbat	°C	Battery temperature
11006	Cd	Ah	Production in (Ah) for the current day
11007	Ed	kWh	Production in (kWh) for the current day
11008	kWhR	kWh	Produced energy resettable counter
11010	Cd-1	Ah	Production in (Ah) for the previous day
11011	Ed-1	kWh	Production in (Wh) for the previous day
11015	Type	Text	Model of VarioTrack (VT-80, VT-65)
11016	Mode	Text	Operating mode (Night, StartUp, ---, Charger, ---, Security, OFF, - --, Charge , Charge V, Charge I, Charge T)
11017	PVmx	Vdc	Max PV voltage for the current day

Info. no.	Name	Unit	Description
11018	Ibmx	Adc	Max battery current of the current day
11019	PVxP	kW	Max power production for the current day
11020	Bmax	Vdc	Max battery voltage for the current day
11021	Bmin	Vdc	Min battery voltage for the current day
11025	Sd	h	Number of irradiation hours for the current day
11026	Sd-1	h	Number of irradiation hours for the previous day
11034	Err	Text	Type of error (No Error, BatoverV, Earth, No Batt, OverTemp, BatOverV, PvOverV, Others, ---, ---, ---, ---)
11037	EqIn	days	Number of days before next equalization
11038	Phas	Text	Battery cycle phase (Bulk, Absorpt., Equalize, Floating, ---, ---, R.float., Per.abs.)
11039	UbaM	Vdc	Battery voltage (minute avg)
11040	IbaM	Adc	Battery current (minute avg)
11041	UpvM	Vdc	PV voltage (minute avg)
11066	Sync	Text	Synchronisation state (---, ---, ---, ---, XTslave, VTslave, ---, ---, VTmaster, Autonom.)

USER INFORMATION (XCOM-MS)



Info. no.	Name	Unit	Description
9000	Uba1	Vdc	Battery voltage of the selected MPPT
9001	Iba1	Adc	Battery current of the selected MPPT
9002	Uso1	Vdc	Array voltage of the selected MPPT
9004	Pou1	W	Output power of the selected MPPT
9006	Ahd1	Ah	Daily charge of the selected MPPT
9007	Whd1	kWh	Daily energy of the selected MPPT
9010	Ibat	A	Sum of battery currents
9011	Pout	kW	Sum of of the output powers
9012	Ahj	Ah	Sum of daily charges
9013	Whj	kWh	Sum of daily energy
9014	nbr		Number of MPPT
9017	Ubat	Vdc	Average battery voltage

MESSAGES AND ACCOUNT OF EVENTS



Level	User ref.	Description
Basic	0	Warning (000): Battery low
Basic	1	Warning (001): Battery too high
Basic	2	Warning (002): Bulk charge too long
Basic	3	Message (003): ACin synchronization in progress
Basic	4	Message (004): Input frequency ACin wrong
Basic	5	Message (005): Input frequency ACin wrong
Basic	6	Message (006): Input voltage ACin too high
Basic	7	Message (007): Input voltage ACin too low
Basic	8	Halted (008): Inverter overload SC
Installer	9	Halted (009): Charger short circuit
Basic	10	Message (010): System startup in progress
Basic	11	Message (011): ACin Energy quota
Basic	12	Message (012): Use of battery temperature sensor
Basic	13	Message (013): Use of additionnal remote control
Basic	14	Halted (014): Overtemperature EL
Basic	15	Halted (015): Inverter overload BL
Basic	16	Warning (016): Fan error detected
Installer	17	Message (017): Programing mode
Basic	18	Warning (018): Excessive battery voltage ripple
Basic	19	Halted (019): Battery undervoltage
Basic	20	Halted (020): Battery overvoltage
Basic	21	Message (021): Input limit reached, no transfert
Basic	22	Error (022): Voltage presence on AC-out
Basic	23	Error (023): Phase not defined
Basic	24	Message (024): Check the clock battery
Basic	25	Error (025): Unknow command board. Upgrade needed
Basic	26	Error (026): Unknow Power board. Upgrade needed
Basic	27	Error (027): Unknow extension board. Upgrade needed
Basic	28	Error (028): Voltage incompatibility Power - Command
Basic	29	Error (029): Voltage incompatibility Ext. - Command
Basic	30	Error (030): Power incompatibility Power - Command
Basic	31	Error (031): Command Board soft incompatibility
Basic	32	Error (032): Power board soft incompatibility
Basic	33	Error (033): Extension board soft incompatibility
Basic	34	Error (034): FID corruption Factory return
Basic	35	Message (035): Memory structure modified
Basic	36	Warning (036): Parameter file lack
Basic	37	Warning (037): Message file lack. Upgrade advised
Basic	38	Warning (038): Upgrade of the device software advised
Basic	39	Warning (039): Upgrade of the device software advised
Basic	40	Warning (040): Upgrade of the device software advised
Basic	41	Warning (041): Overtemperature TR
Basic	42	Halted (042): Unauthorized energy source at the output

Level	User ref.	Description
Basic	43	Message (043): Start of monthly test
Basic	44	Message (044): End of successfully monthly test
Basic	45	Warning (045): Monthly autonomy test failed
Basic	46	Message (046): Start of weekly test
Basic	47	Message (047): End of successfully weekly test
Basic	48	Warning (048): Weekly autonomy test failed
Basic	49	Warning (049): Current over input limit, transfer opened
Basic	50	Error (050): Incomplete data transfer
Basic	51	Message (051): The update is finished
Basic	52	Message (052): Your installation is already updated
Basic	53	Error (053): Devices not compatible, update required
Basic	54	Message (054): Please wait. Data transfer in progress
Basic	55	Error (055): No SD card inserted
Basic	56	Warning (056): Upgrade of the RCC software advised
Basic	57	Message (057): Operation finished successfully
Basic	58	Error (058): Master synchro missing
Basic	59	Halted (059): Inverter overload HW
Basic	60	Warning (060): Time security 1512 AUX1
Basic	61	Warning (061): Time security 1513 AUX2
Basic	62	Warning (062): Genset, no ACin comming after AUX command
Basic	63	Message (063): Save parameter XT
Basic	64	Message (064): Save parameter BSP
Basic	65	Message (065): Save parameter MPPT
Basic	71	Error (071): Insufficient disk space on SD card
Basic	72	Error (072): CAN identification incorrect
Basic	73	Message (073): Datalogger is enabled on this RCC
Basic	74	Message (074): Save parameter BRIDGE MPPT
Basic	75	Message (075): MPPT MS address changed sucessfully
Basic	76	Message (076): Error during change of MPPT MS address
Basic	77	Message (077): Wrong Tristar DIP Switch position
Basic	78	Message (078): SMS or email sent
Basic	79	Error (079): More than 9 XTs in the system
Basic	80	Error (080): No battery (or reverse polarity)
Basic	81	Alarm (81): Earthing fault
Basic	82	Alarm (082): PV overvoltage
Basic	83	Message (083): No solar production in the last 48h
Basic	84	Message (084): Equalization performed
Basic	85	Error (085): Modem not availaible
Basic	86	Error (086): Incorrect PIN code, unable to initiate the modem
Basic	87	Error (087): Insufficent Signal from GPRS modem
Basic	88	Error (088): No connection to GPRS network
Basic	89	Error (089): No server access
Basic	90	Message (090): Server connected
Basic	91	Error (091): Update other RCC or Xcom-232i
Basic	92	Error (092): More than 3 RCC or Xcom-232i in the system
Basic	93	Error (093): More than 1 BSP in the system
Basic	94	Error (094): More than 1 Xcom MS in the system
Basic	95	Error (095): More than 15 VarioTrack in the system
Basic	121	Error (121): Impossible communication with target device

Level	User ref.	Description
Basic	122	Error (122): SD card corrupted
Basic	123	Error (123): SD card not formatted
Basic	124	Error (124): SD card not compatible
Basic	125	Error (125): SD card format not recognized. Should be FAT
Basic	126	Error (126): SD card write protected
Basic	127	Error (127): SD card, file(s) corrupted
Basic	128	Error (128): SD card file or directory could not be found
Basic	129	Error (129): SD card has been prematurely removed
Basic	130	Error (130): Update directory is empty
Basic	131	Message (131): The VarioTrack is configured for 12V batteries
Basic	132	Message (132): The VarioTrack is configured for 24V batteries
Basic	133	Message (133): The VarioTrack is configured for 48V batteries
Basic	134	Message (134): Reception level of the GPRS signal
Basic	137	Message (137): VarioTrack master synchro lost
Basic	138	Message (138): XT master synchro lost
Basic	139	Message (139): Synchronized on VarioTrack master
Basic	140	Message (140): Synchronized on XT master
Basic	145	Error (145): SIM card blocked, PUK code required
Basic	146	Error (146): SIM card missing



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